# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	_ PCT			
To: KONINKLIJKE PHILIPS ELECTRONICS N.V. Attn. Eleveld, Koop J. Prof. Holstlaan 6 NL-5656 AA Eindhoven NETHERLANDS	THE INTERNATIONAL THE WRITTEN OPINION	F TRANSMITTAL OF SEARCH REPORT AND OF THE INTERNATIONAL Y, OR THE DECLARATION		
O 1 JUNI 2005	(PC	T Rule 44.1)		
	Date of mailing (day/month/year) 01/0	6/2005		
Applicant's or agent's file reference				
PHNL050182	FOR FURTHER ACTION	See paragraphs 1 and 4 below		
International application No.	International filing date			
PCT/IB2005/050662	(day/month/year) 23/0	2/2005		
Applicant				
KONINKLIJKE PHILIPS ELECTRONICS N.V.				
1. X  The applicant is hereby notified that the international search Authority have been established and are transmitted herewir Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norn International Search Report; however, for more Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the acco  2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Ir  3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has bee applicant's request to forward the texts of both the promoder in o decision has been made yet on the protest; the applicant applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Before the completion of the technical preparations for international Before the completion of the technical preparations for international Before the completion of the technical preparations for international Prelaminary examination report has been or is to be a the public but not before the expiration of 30 months from the priority date, but only in respect of sone examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Off In respect of other designated Offices, the time limit of 30 months months.  See the Annex to Form PCT/IB/301 and, for details about the app Guide, Volume II, National Chapters and the WIPO Internet site.	th.  Is of the International Application (smally 2 months from the date of tradetails, see the notes on the accordance chemin des Colombettes ascimile No.: (41–22) 740.14.35 impanying sheet.  In report will be established and that international Searching Authority are anal fee(s) under Rule 40.2, the application and the decision thereon to the oblicant will be notified as soon as a decision thereon to the oblicant will be publication.	see Rule 46): Insmittal of the impanying sheet.  If the declaration under the transmitted herewith, plicant is notified that: It is ureau together with the edesignated Offices, decision is made.  Insulational and 90bis.3, respectively,  Searching Authority to the Offices unless an all also be made available to for international preliminary and months from the priority date, perform the prescribed mand is filed within 19		
Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2  NL-2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer Paul Faux			



#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

# PATENT COOPERATION TREATY

# **PCT**

### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
PHNL050182 ACTION as well			as, where applicable, item 5 below.			
International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)						
PCT/IB2005/050662 23/02/2005 23/02/2004						
Applicant	Applicant					
KONINKLIJKE PHILIPS ELECTE	RONICS N.V.					
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant			
This International Search Report consists	of a total of she	ets.				
X It is also accompanied by	a copy of each prior art document o	ited in this	report.			
Basis of the report	······································		·			
a. With regard to the language, the	international search was carried out ess otherwise indicated under this it		sis of the international application in the			
X The international this Authority (Ru		of a transla	ation of the international application furnished to			
	` ','	disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4 Milith regard to the AiAle						
With regard to the <b>title,</b> the text is approved as su	hmitted by the applicant	•				
	hed by this Authority to read as folio	ws.				
NOZZLE ASSEMBLY FOR A	•					
•						
5. With regard to the abstract,						
the text is approved as su	• • • • • • • • • • • • • • • • • • • •		to an it appears in Day Ma W. The applicant			
may, within one month fro	om the date of mailing of this interna	ional sear	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
6. With regard to the drawings,			·			
a. the figure of the <b>drawings</b> to be published with the abstract is Figure No. 10						
x as suggested by	the applicant.		·			
as selected by thi	s Authority, because the applicant fa	uiled to sug	ggest a figure.			
l . — —	s Authority, because this figure bette	er characte	erizes the invention.			
b none of the figures is to b	e published with the abstract.					

International application No.

# INTERNATIONAL SEARCH REPORT

PCT/IB2005/050662

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

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A nozzle assembly semiconductor desconfigured to prodevice; and a characteristic configured to at simultaneously desired blade and onto the simultaneously desired to a characteristic configured to a characteristic configuration of the	vice cutting botrude toward annel formed i least partial irect flow of	lades (318), c a cutting blad n each of the ly surround th a fluid onto t	omprising: one e for cutting nozzles, the c e cutting blad he cutting edg	or more nozzles a semiconductor hannel being e, so as to	
				·	
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#### INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/050662

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B28D5/00 B28D B23D59/02 B28D5/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B28D B23D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 955 119 A (SKC DI TONDINI CLAUDIO) 1 - 3.510 November 1999 (1999-11-10) paragraphs '0013!, '0014!; figures 2,4,5 8,9 Υ US 3 623 520 A (PETER J. NEILD) 1, 2, 4-7X 30 November 1971 (1971-11-30) column 2, line 5 - column 3, line 35; Υ 8,9 figures 1,2,4 X US 4 619 081 A (LIPANSKI ET AL) 1,5 28 October 1986 (1986-10-28) column 5, line 6 - line 20; figure 8 Υ US 2002/178883 A1 (YAMAMOTO NAOKO) 8,9 5 December 2002 (2002-12-05) paragraphs '0013! - '0018!; figures 2.3 Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 01/06/2005 28 April 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Frisch, U

### **INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No
PCT/IB2005/050662

Patent document cited in search report				Patent family member(s)		
EP 0955119	Α	10-11-1999	IT AT DE EP	B0980291 285310 69922734 0955119	T D1	08-11-1999 15-01-2005 27-01-2005 10-11-1999
US 3623520	Α	30-11-1971	NONE			
US 4619081	Α	28-10-1986	CN EP	86101497 0193070		12-11-1986 03-09-1986
US 2002178883	A1	05-12-2002	JP	2002359212	A	13-12-2002

# **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT			
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				(day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below			
International application No. International filing date PCT/IB2005/050662 23.02.2005			(day/month/year) Priority date (day/month/year) 23.02.2004			
International Patent Classification (IPC) or both national classification and IPC B28D5/00, B28D5/02, B23D59/02						
Appli KOI	icant NINKLIJKE PHIL	IPS ELECTRO	ONICS N.V.			3
1.	<ol> <li>This opinion contains indications relating to the following items:</li> <li>Box No. I Basis of the opinion</li> <li>Box No. II Priority</li> <li>Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>Box No. IV Lack of unity of invention</li> </ol>					
	⊠ Box No. V	Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
<ul> <li>☐ Box No. VI Certain documents cited</li> <li>☐ Box No. VII Certain defects in the international application</li> </ul>						
	☐ Box No. VIII		ations on the internation			
2.	FURTHER ACT	ION				
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date,						
whichever expires later.						
3.	For further options, see Form PCT/ISA/220.  3. For further details, see notes to Form PCT/ISA/220.					
Nam	Name and mailing address of the ISA:  Authorized Officer					
14011		33 Of the IOA.		Additionzed Officer		disches Patentamy.

<u>)</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Frisch, U

Telephone No. +49 89 2399-7237



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050662

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	Box N	o. I Basis of the opinion						
1.	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
	laı	is opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search and results 12.3 and 23.1(b)).						
2.	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
	a. type	of material:						
		a sequence listing						
		table(s) related to the sequence listing						
	b. form	at of material:						
		in written format						
		in computer readable form						
	c. time	of filing/furnishing:						
		contained in the international application as filed.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority for the purposes of search.						
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.						
4.	Additio	nal comments:						

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

8,9

No: Claims

1-7

Inventive step (IS)

Yes: Claims

No: Claims

1-9

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

1

Reference is made to the following documents:

D1 : EP 0 955 119 A (SKC DI TONDINI CLAUDIO) 10 November 1999 (1999-11-10)

D2: US 3 623 520 A (PETER J. NEILD) 30 November 1971 (1971-11-30)

D3: US 4 619 081 A (LIPANSKI ET AL) 28 October 1986 (1986-10-28)

D4: US 2002/178883 A1 (YAMAMOTO NAOKO) 5 December 2002 (2002-12-05)

#### 2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document):

A nozzle assembly <u>suitable for</u> directing flow of a fluid across one or more semiconductor device cutting blades, comprising:

- one nozzle (12) configured to protrude toward a cutting blade (D); and
- a channel formed in each of the nozzles, the channel being configured to at least partially surround the cutting blade, so as to simultaneously direct flow of a fluid onto the cutting edge of the cutting blade and onto the sides of the cutting blade (Fig.5).

The nozzle assembly is obviously suitable for a semiconductor cutting device.

The features of claim 1 are also known from D2 and D3.

#### 3 INDEPENDENT CLAIM 8

The present application does not meet the criteria of Article 33(1) PCT, because the subject

matter of claim 8 does not involve an inventive step in the sense of Article 33(3)PCT.

3.1. Document D4, which is considered to represent the most relevant state of the art to the subject matter of claim 8, discloses a sawing apparatus according for a semiconductor device.

3.2

The subject-matter of independent claim 8 differs from the disclosure of D4 in that: A nozzle assembly according to claim 1 is used.

- 3.3 The problem to be solved by the present invention may therefore be regarded as providing a simple nozzle for directing fluid across the cutting blade.
- 3.4 In view of D1, D2 and D3 the solution proposed in claim 8 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: The above mentioned features have already been employed for the same purpose in a similar apparatus, see documents D1, D2 or D3. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a method according to document D4, thereby arriving at a use according to claim 8.

#### 4 DEPENDENT CLAIMS 2-7, 9

Dependent claims 2-7, 9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

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